Title (en)
INVERTER CONTROL DEVICE, INVERTER CONTROL METHOD, AND INVERTER CONTROL PROGRAM

Title (de)
WECHSELRICHTERSTEUERUNG, WECHSELRICHTERSTEUERUNGSVERFAHREN UND WECHSELRICHTERSTEUERUNGSPROGRAMM

Title (fr)
DISPOSITIF DE COMMANDE D'ONDULEUR, PROCÉDÉ DE COMMANDE D'ONDULEUR ET PROGRAMME DE COMMANDE D'ONDULEUR

Publication
EP 3783791 A1 20210224 (EN)

Application
EP 19789213 A 20190312

Priority
- JP 2018079041 A 20180417
- JP 2019009875 W 20190312

Abstract (en)
To improve control characteristics of an inverter while suppressing manufacturing cost. An inverter control device 10 is a device for controlling an inverter device 1 having a plurality of switching elements. The inverter control device 10 includes a current control unit 13 that calculates three phase voltage command signals Vu*, Vv*, and Vw* based on a d-axis current command signal id* and a q-axis current command signal iq* at each predetermined calculation period T0, a sampling period conversion unit 14 that outputs three phase voltage command signals Vu**, Vv**, and Vw** after update at each predetermined update period T1 different from the calculation period T0 based on a calculation result of the three phase voltage command signals Vu*, Vv*, and Vw* by the current control unit 13, and a gate signal generation unit 15 that generates a gate signal for switching-driving a plurality of the switching elements based on the three phase voltage command signals Vu**, Vv**, and Vw** after update output from the sampling period conversion unit 14.

IPC 8 full level
H02M 7/48 (2007.01)

CPC (source: EP US)
H02M 1/0009 (2021.05 - EP); **H02M 1/0025** (2021.05 - EP); **H02M 7/53803** (2013.01 - US); **H02M 7/53871** (2013.01 - EP); **H02M 7/53873** (2013.01 - EP)

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